TC-K8 (Panel: Silver)

Canadian Model

TC K8B (Panel: Black)

E Model AEP Model UK Model



# STEREO CASSETTE DECK

rent from the street to be a series

#### **SPECIFICATIONS**

Power Requirements:

110, 120, 220, 240V ac, 50/60 Hz (E, AEP, UK model)

120V ac, 60 Hz (Canadian model)

**Power Consumption:** 

35W (E. AEP, UK model)

32W (Canadian model)

AC Outlet: Dimensions: Unswitched 300W total (Canadian model)

Approx. 430 (w)  $\times$  170 (h)  $\times$  310 (d) mm

 $17 \text{ (w)} \times 6^{3/4} \text{ (h)} \times 12^{1/4} \text{ (d)}$  inches

(E, AEP, UK model) 460 (w) × 170 (h) × 310 (d) mm 18 <sup>1</sup>/<sub>8</sub> (w) × 6 <sup>3</sup>/<sub>4</sub> (h) × 12 <sup>1</sup>/<sub>4</sub> (d) inches

(Canadian model)

Including projecting parts and controls

'Dolby' and the double-D symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under license from Dolby Laboratory Inc.

#### SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK NON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ !

LES COMPOSANTS IDENTIFIÉS PAR UN TRAMÉ ET UNE MARQUE A SUR LES DIAGRAMMES SCHÉ-MATIQUES, LES VUES EXPLOSÉES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION: See page 50

Weight:

Approx. 11 kg, 24 lb 5 oz (E, AEP, UK model)

11.8 kg, 26 lb 1 oz (Canadian model)

Track:

4-track 2-channel stereo

Fast Forward and **Rewind Time:** 

Approx. 70 seconds with Sony cassette C-60

DOLBY NR OFF Frequency Response:

With Ferri-Chrome cassette 20-18,000 Hz (NAB) 30-16,000 Hz ±3 dB (NAB)

30-16,000 Hz (DIN)

With chromium dioxide cassette 20-17,000 Hz (NAB) 30-15,000 Hz ±3 dB (NAB)

30-15,000 Hz (DIN)

With standard cassette 20-15,000 Hz (NAB) 30-13,000 Hz (DIN)

Wow and Flutter:

0.045% WRMS ±0.12% (DIN)

S/N Ratio:

DOLBY NR OFF With Ferri-Chrome cassette 60 dB at peak level (NAB) 59 dB (DIN, 1975 rev.) With chromium dioxide cassette

56 dB at peak level (NAB) DOLBY NR ON

Improved by 5 dB at 1 kHz, 10 dB above 5 kHz

Total Harmonic Distortion:

1.3%

- Continued on page 2 -



Record Bias Frequency:

105 kHz

Inputs:

MIC (two phone jacks)

Sensitivity: 0.2 mV (-72 dB)

for low-impedance microphone

LINE IN (stereo binaural jack, two phono jacks)

Sensitivity: 0.06V (-22 dB) Impedance:  $100 \text{ k}\Omega$ 

**Outputs:** 

LINE OUT (two phono jacks) Normal level: 0.775 V (0 dB) Load impedance:  $100 \text{ k}\Omega$ 

with LINE OUT level control at "10"

suitable load impedance more than  $10\,\mathrm{k}\Omega$ 

HEADPHONES (binaural jack)
output level 3.9 mV to 0.12V (-46 to -16 dB)

at load impedance  $8\Omega$ 

Record/Playback Jack:

Input impedance less than  $10 \, k\Omega$ Output impedance less than 10 kΩ

Remote Control

Connector:

11-pin connector

Liquid Crystal peak program meters

Response Range:

-40 dB to +5 dB

Frequency Response:

20 Hz-20,000 Hz ± 1.5 dB

Response Time:

1 millisecond

Decay Time:

Overshoot:

750 milliseconds (0 dB to -20 dB)

Indicator Elements:

64 elements for each channel

0 dB = 0.775 V

### SECTION 1 **OUTLINE**

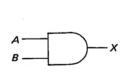
#### Circuit Description

A major feature of the TC-K8/K8B is the liquid crystal peak program meter which display input and output signals in analog bar graph form.

Some of the basic logic circuits employed in the meter circuit:

AND circuits:

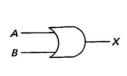
"H" output obtained only when all inputs are "H".



A	В.	X
L	L	L
Н	L	L
L	Н	L
Н	Н	Н

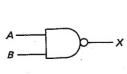
OR circuits:

"H" output obtained when at least one input is "H".



В	X
L	L
L	Н
Н	Н
Н	Н
	L L H

NAND circuits: "L" output obtained when all inputs are "H". NAND circuits are formed by combining an AND circuit with a negating circuit.



ı	A	В	X
Ī	L	L	Н
×	Н	L	Н
	L	Н	Н
	Н	Н	L

#### Liquid Crystal Peak Program Meter Drive Circuits

- 1. Basic Frequency Generator Circuits for Liquid Crystal Drive (See Figs. 1 & 2.) The signal generated by the multivibrator consisting of IC7-4, 7-5, C006, and R012 is passed through inverter IC7-6 to produce waveform A. This signal is then divided into 7 different waveforms B - B by IC6.
  - a) Clock pulse

Clock pulses are reference signals employed to show the converted time as the number of pulses. In this cassette deck, waveform B serves as the clock pulse. But waveforms A and B are combined in the IC12-1 AND circuit to obtain a delay of half a clock pulse. This output (waveform 1) is applied to CX762 to ensure reliable shift of the A/D converted serial signal.

b) Strobe pulse

The IC6 output waveforms 

to 

are applied to IC13 for a NAND operation (waveform **①** ). The strobe pulse is then formed by adding the output waveform & from the IC7-1, R026, C007 delay circuit to the IC13 output waveform 1 in an AND operation. This strobe pulse signal (waveform (1) is applied to CX762 and used as a reset signal.

c) Drive pulse IC6 output (waveform ) is used as an LCD drive signal, being applied to CX762 via inverter IC8.

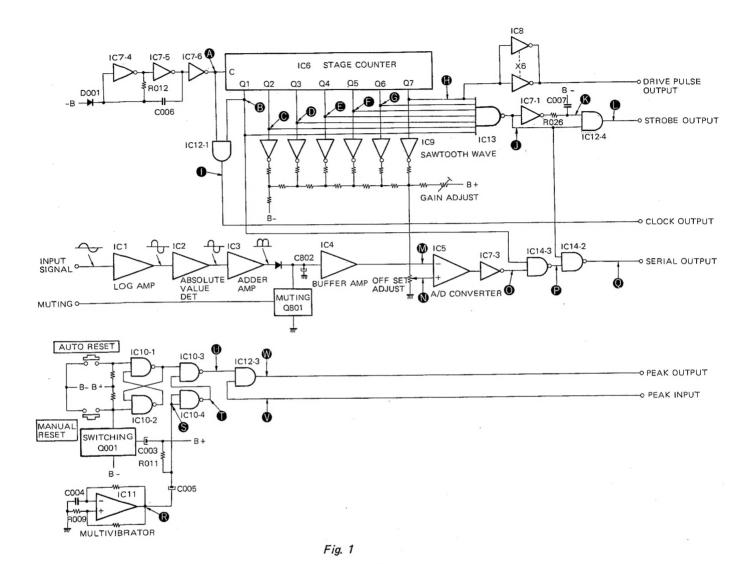


Fig. 2

2. A/D Converter Serial Signal Generator Circuit (See Figs. 1 & 3.)

The input signal is compressed according to a logarithmic function (in IC1) in order to expand the meter scale range. Then in order to detect both positive and negative peak levels in the input signal, the signal is rectified by the IC2 and IC3 full-wave rectifier, and charged up on C802 to convert the signal to DC current. (Levels a, b, and c in waveform- o correspond to the level variation in the input signal). The IC6 output waveforms ( to are applied to IC9, passed through resistors, and then combined to form a comparator sawtooth wave (waveform N) which is compared with waveform M in the A/D converter IC5. The input signal level variations are consequently converted into pulse widths ( waveforms). The waveforms are passed through the inverter, and combined with the clock pulses (waveform by a NAND operation, resulting in the input signal level variation subsequently being expressed in terms of the number of clock pulses ( waveforms serial signal). The IC13 NAND output (waveform ) is combined with the serial signals ( waveforms) in another NAND operation, thereby maintaining the left hand end LCD on constantly. This precaution ensures that the display does not go off altogether when there is no input signal, and also eliminates the effects due to the drift at low level.

\* Drive pulse

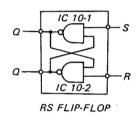
Since the IC8 inverter operates and the output current of the "H" and "L" levels is equal, the potential difference becomes zero and this ensures longer operational life of the liquid crystal.

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•	GH	L
		 L_
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0	` t —	-
•	~ " WW	

Fig. 3

3. Meter Mode Switching (See Figs. 1, 4 & 5) IC10-1 and IC10-2 constitute an RS flip-flop. When the power supply switch is turned on, Q001 turns on, and the input terminal of IC10-2 is grounded while C003 is being charged up. Therefore an "L" level signal is generated on the IC10-1 output terminal. When the MANUAL RESET switch is also turned on, an "L" level signal is generated on the IC10-1 output terminal in the same way. When the AUTO RESET switch is turned on, an "L" level signal is applied to the

input terminal of IC10-1, resulting in the generation of an "H" level signal on the IC10-1 output terminal (See Fig. 4.) The signal (waveform R) generated in the multivibrator (IC11, C004, and R009) is differentiated by C005 and R011 (waveform (S). The waveform (S) is then rectified by IC10-4 (waveform ), and combined with the IC10-1 output signal in a NAND operation (waveform **(1)** ). The peak signal reset pulse is generated when the AUTO RESET switch is on, but not when the MANUAL RESET switch is on.



Out Pov S	put ver	Q	Q
L	Н	Н	L
Н	L	L	L

Fig. 4

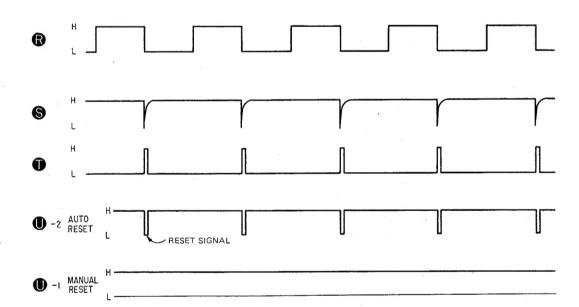
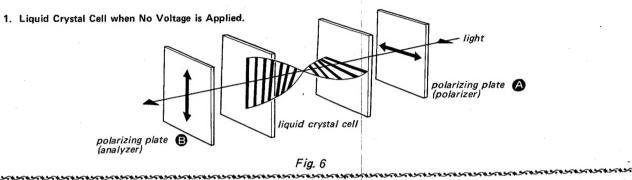


Fig. 5

#### Liquid Crystal

The TC-K8B features the liquid crystal peak program meter. Although liquid crystal comes in various different types, the liquid crystal molecules employed here are long and slender, and line up in the direction of-an electric field. By orienting this liquid crystal parallel to the surface of a glass plate, and then setting up 2 such glass plates to be at right angles to a light

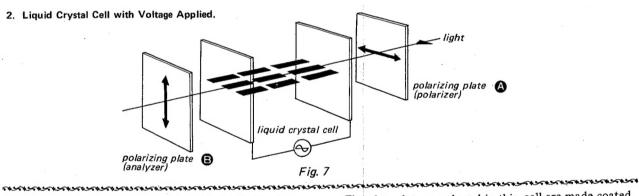
beam, the liquid crystals within the liquid crystal cell line up as shown in Fig. 6. When 2 light polarizing glass plates are added to both sides of the cell, but no voltage applied across the cell, a light beam passed through polarizing plate A is rotated through 90° as it passes through the cell, and passed out again through polarizing plate 3.



When a voltage is then applied across the crystal cell, the liquid crystals change direction and align perpendicular to the surface of the glass plates (as shown

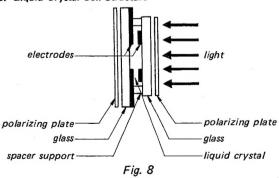
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in Fig.7.) The polarized light is no longer rotated through 90°, and consequently fail to pass through polarizing plate 3 . Therefore, the cell appears dark.



However, rather than indicating peak level by the change between light and dark, the peak program meter employed in the TC-K8/K8B feature a color display. This is achieved by using a color polarizing plate on the light source side. All colors except the desired color polarized by polarizing plate (A), resulting in this non-polarized color passing through polarizing plate (B) when all other colors are blocked

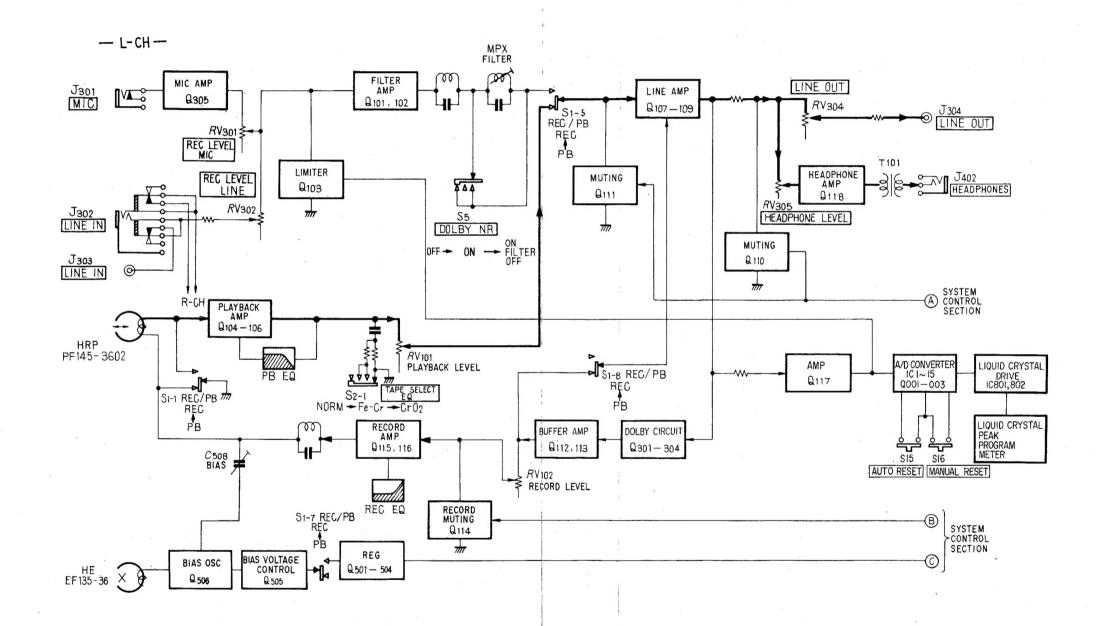
3. Liquid Crystal Cell Structure



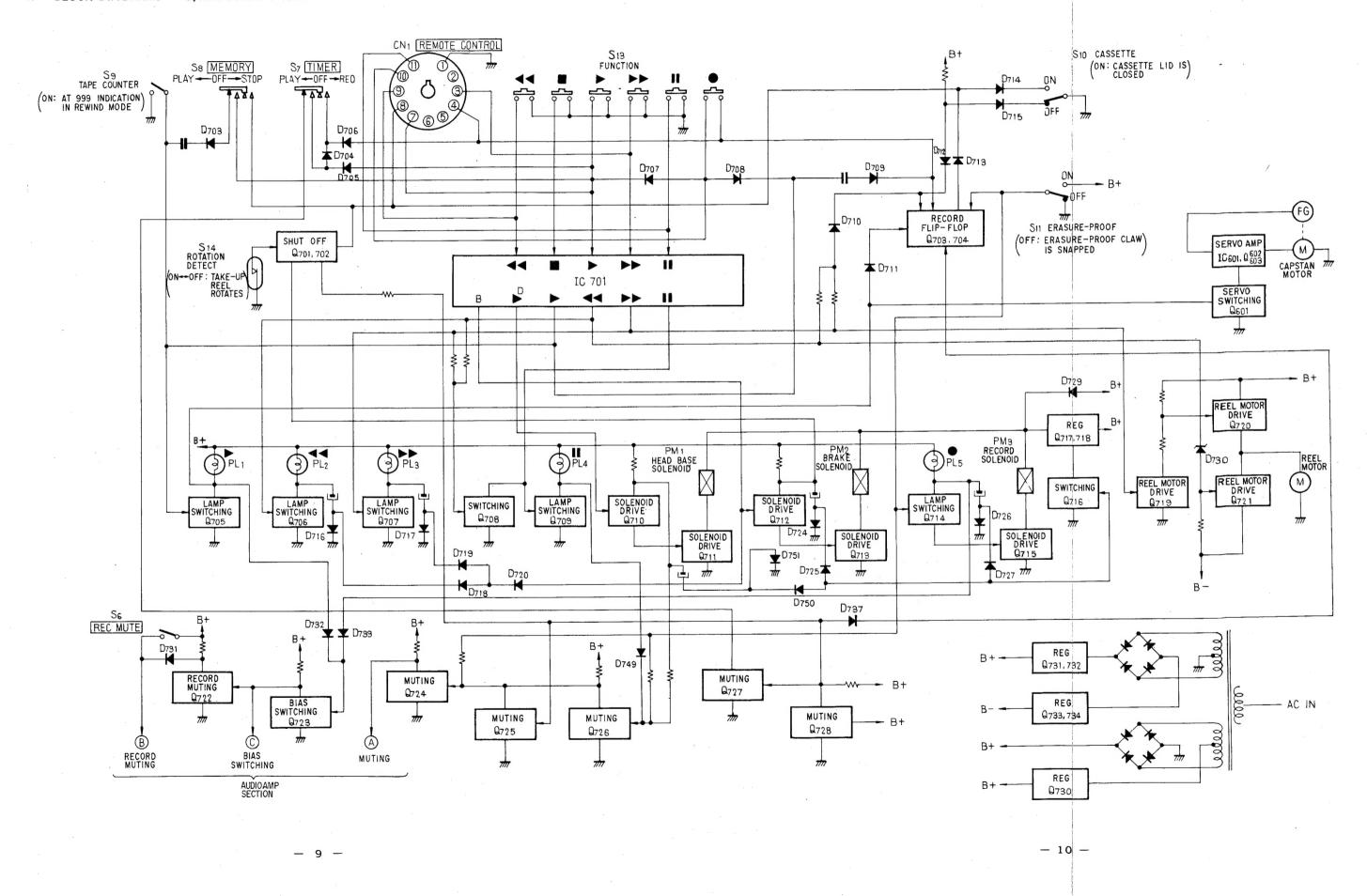
The glass plates employed in this cell are made coated by a transparent, electrically conductive material known as nesa film (which contains indium oxide). The coating is etched to form meter scale. The two plates are separated by a spacing support, and the space between two plates is filled with liquid crystal. The voltage is applied to the electrodes mounted on the inside of the glass plates, and when viewed from the front, the meter display is colored.

The TC-K8/K8B program meter c onsist of 64 separate elements in both left and right channels. The letters L and R also employ liquid crystal display. The colored polarizing plate is blue below the 0 dB level, and red above it. A fluorescent lamp has been employed as the light source because of the wide light spectrum required for the color display.

#### 1. BLOCK DIAGRAMS - Audio Amp Section -



#### 1. BLOCK DIAGRAMS - System Control Section -



8

5

(cm)

#### MOS IC HANDLING PRECAUTIONS

Since the insulation resistance of the oxidized film of MOS IC is generally very high and the film is extremely thin, the static electric charge on clothing or the body will cause the insulation to breakdown. Observe the following precautions when replacing this IC:

1. Maintain all the pins at the same potential by wrapping the IC in aluminum foil or other similar material. (See Fig. 1)

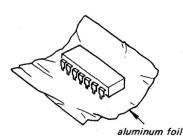
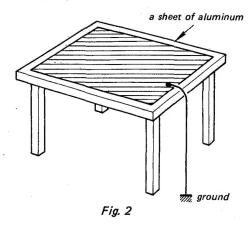


Fig. 1

2. Ground the work bench for static electricity. (See Fig. 2) (Place a sheet of aluminum onto the bench.)



3. If necessary to touch the MOS IC direct, grasp the IC at a point other than the pins. Moreover, wear cotton gloves or a cotton finger sack. (Gloves made of nylon or other similar material are undesirable. The static electricity on your body can be easily discharged by wrapping a ground wire around your wrist.)

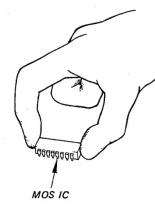
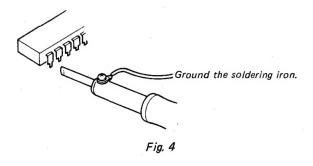
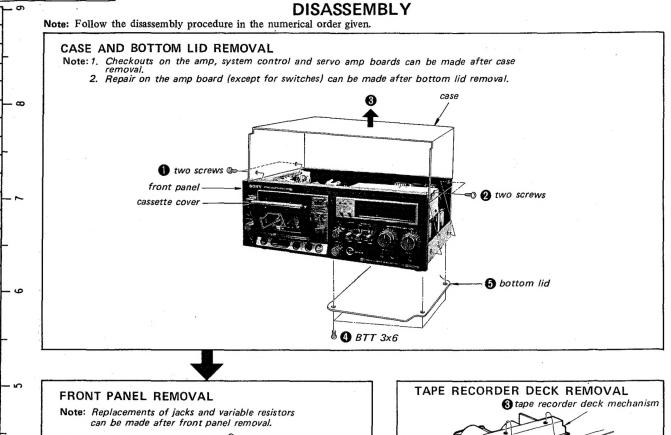
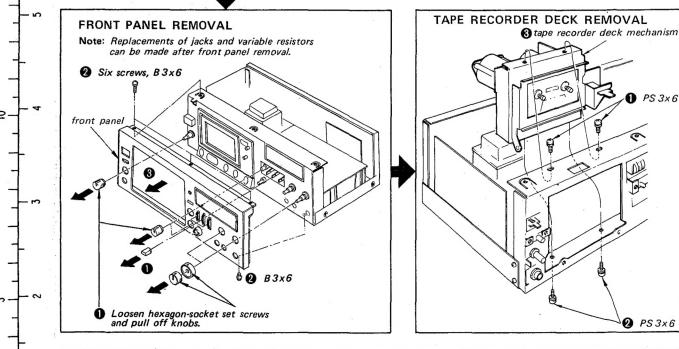


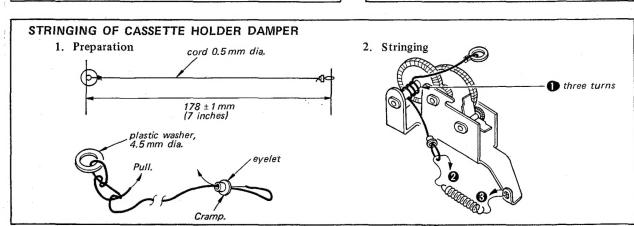
Fig. 3

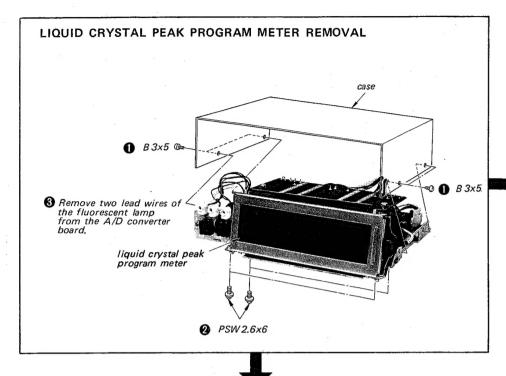
4. Short all the pins of the IC before beginning any work. Also ground the soldering iron.

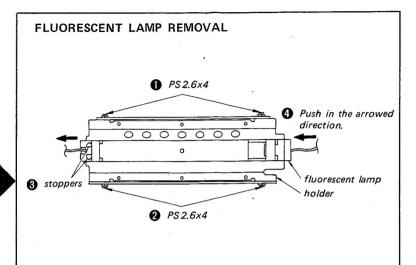






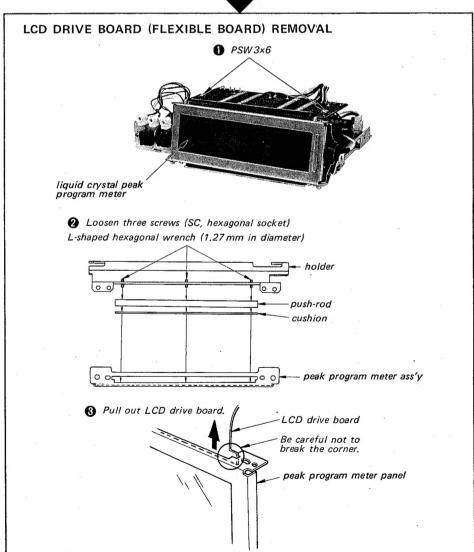






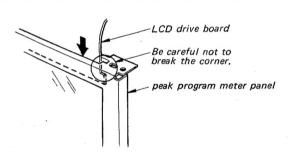
#### Caution:

Since the LCD drive board is easy to remove, when removing the fluorescent lamp, be careful not to break the corner of the LCD drive board.

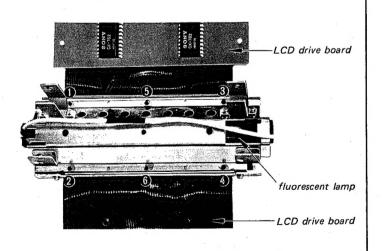


# INSTALLATION OF LCD DRIVE BOARD

1. Insert the LCD drive board in the arrowed direction.

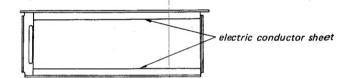


2. Tighten six screws (SC, hexagonal socket) in the numerical order ((1) - (6)).



#### SERVICING PRECAUTIONS

- \* The liquid crystal peak program meter assembly and the LCD (liquid crystal) drive board are connected by electric conductor sheets (the black bands). This conductor plate is "pasted" onto the liquid crystal assembly, and must not be removed during repairs.
- \* To check for any defects in the liquid crystal meter and the IC (CX-762), interchange the L-CH and R-CH input connectors to the flexible circuit board.
- \* Since the LCD drive section is mounted on a flexible circuit board, be particularly careful whenever removing and re-installing.
- \* The liquid crystal drive IC (CX-762) is a MOS-IC which also must be handled with considerable care.



- 0.5-1.0 mm

# SECTION 3 ADJUSTMENT

#### **PRECAUTION**

1. Clean the following parts with a denatured-alcoholmoistened swab:

record/playback head erase head

capstan

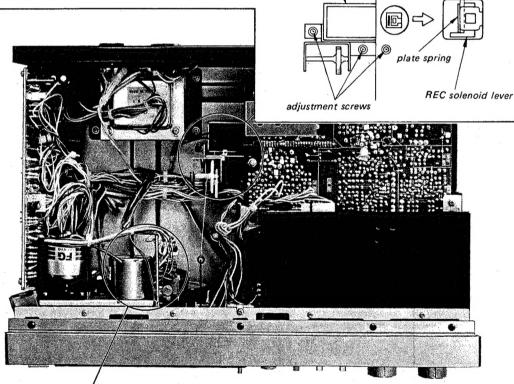
pinch roller rubber belts idlers

- 2. Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply a suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

#### 3-1. MECHANICAL ADJUSTMENTS

#### Record Solenoid Position Adjustment

Adjust the record solenoid position to obtain the specified clearance between plate spring and record solenoid lever.



**- 15 -**

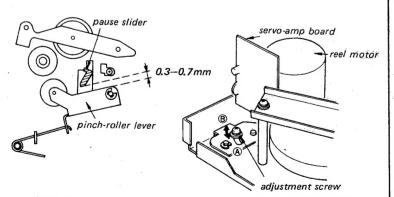
record solenoid (PM3)

#### Pause Lever Position Adjustment

#### - PAUSE mode -

Loosen the adjustment screw and slide it in the direction (A) or (B) to obtain the specified clearance as shown below.

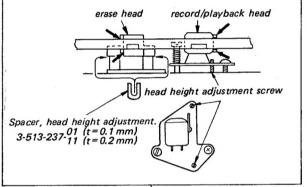
Sliding direction of adjustment screw	Clearance	
direction (A)	narrow	
direction (B)	wide	



#### Tape Path Adjustment

#### - playback mode -

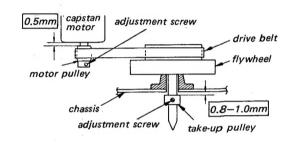
- Adjust erase head height by adding or removing spacer to eliminate tape curl at the erase head.
- Adjust record/playback head height adjustment screw to eliminate tape curl at the record/playback head.

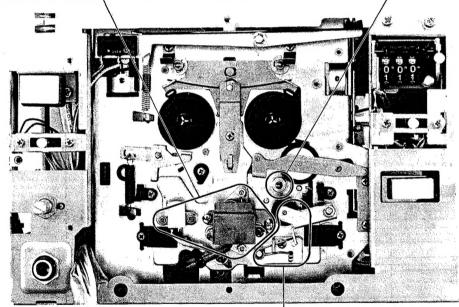


#### Pulley Height Adjustment

#### - stop mode -

Adjust position of capstan motor pulley and take-up pulley to obtain the specified clearances as shown below.

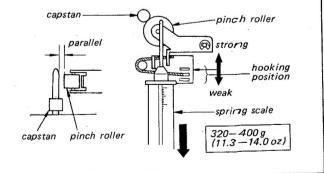




#### Pinch Roller Pressure Adjustment

#### - playback mode -

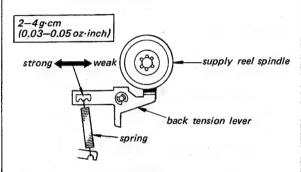
- 1. Pull the spring scale.
- 2. Slowly return the pinch roller and read the spring scale just when the pinch roller starts to rotate
- 3. If necessary, change the hooking position.



#### Forward Back Tension Torque Adjustment

#### - playback mode -

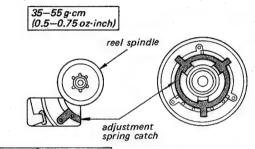
- 1. Place the type CO-101 cassette torque meter in the set.
- 2. Adjust the spring-hook position to obtain the specified torque.

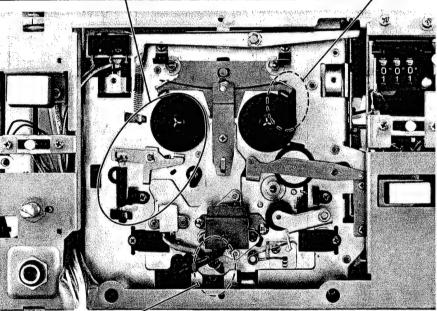


#### Forward Torque Adjustment

#### - playback mode -

- 1. Place the type CQ-101 cassette torque meter
- 2. Adjust the position of the adjustment spring catch using a suitable pin and turning the reel spindle to obtain the specified torque.

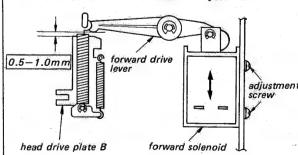




#### Forward Solenoid Position Adjustment

#### - playback mode -

Adjust the position of the forward solenoid to obtain the indicated clearance between the forward drive lever and head drive plate B.



#### Fast Forward and Rewind Torque Measurement

Use type CQ-201 cassette torque meter. Fast Forward Torque: 75-130 g-cm

 $(1.1-1.8 \text{ oz} \cdot \text{inch})$ 

Rewind Torque:

75-130 g⋅cm (1.1-1.8 oz-inch)

#### 3-2. ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

#### Test Equipment/Tools Required:

audio oscillator (af osc) VTVM digital frequency counter speed checker SONY LFM-30 oscilloscope attenuator (600  $\Omega$ ) non-magnetic screwdriver resistors ...  $600 \Omega$  (½ W),  $10 k\Omega$  (½ W),  $100 \,\mathrm{k}\Omega \,(^{1}/_{4}\,\mathrm{W})$ blank tapes (completely erased with bulk eraser) SONY CS-10 (HF), CS-20 (CrO<sub>2</sub>),

BIAS and EQ switch settings in accordance with tape used are as follows.

Tape	BIAS switch	EQ switch
CS-10	NORMAL	NORMAL
CS-20	HIGH	CrO <sub>2</sub>
CS-30	NORMAL	Fe-Cr

CS-30 (Fe-Cr)

#### SONY test tapes

P-4-A81S (6.3 kHz, -10 dB) P-4-A82 (10 kHz, -10 dB) P-4-L81 (333 Hz, 0 dB) WS-48 (3 kHz, 0 dB)

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF

LINE OUT control: MAX

EO switch:

NORMAL NORMAL

BIAS switch:

HEADPHONE LEVEL: MAX

OFF TIMER switch:

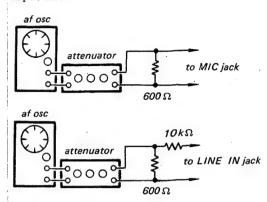
**OFF** MEMORY switch:

OFF

LIMITER switch: REC MUTE switch: OFF

#### **Test Equipment Connections:**

Input side:



#### Standard Record:

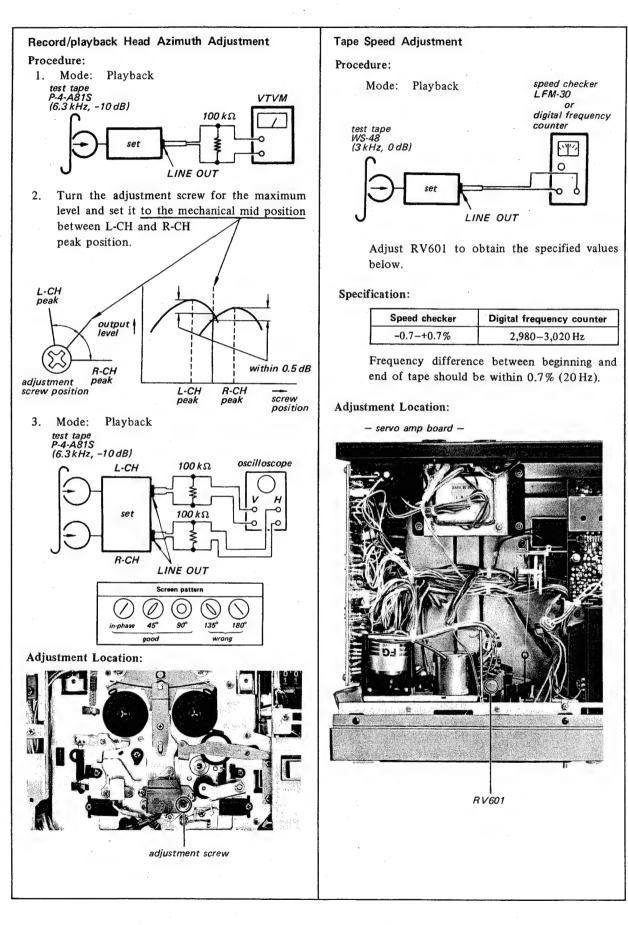
Supply the standard input level signal to the input jack and set the MIC or LINE control to obtain the standard output level signal. Set the LINE control to MIN when MIC is used or set MIC control to MIN when LINE IN is used.

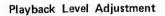
#### Standard Input Level

	MIC	LINE IN
source impedance	300Ω	10 kΩ
input level	0.77 mV (-60 dB)	0.25 V (-10 dB)

#### Standard Output Level

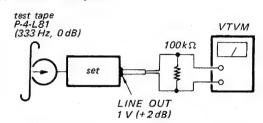
	LINE OUT	HEADPHONE		
load impedance	100 kΩ	8Ω		
output level	0.775 V (0 dB)	0.12V (-16 dB)		





#### Procedure:

1. Mode: Playback



Adjust RV101 (L-CH) and RV201 (R-CH) to obtain 1V (+2 dB) VTVM reading.

 Assure that the LINE OUT level does not change when the mode is changed from playback to stop several times.

#### Specification:

LINE OUT level:

 $0.92 - 1.05 \,\mathrm{V}$ 

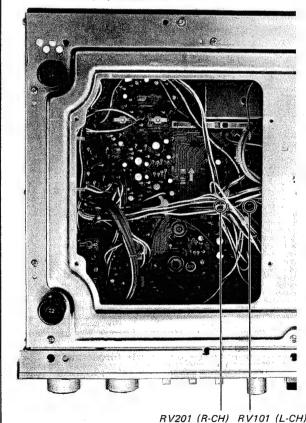
(+1.5-+2.5 dB)

Level difference between channels:

less than 0.5 dB

#### Adjustment Location:

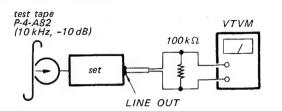
- record/playback board -



#### Playback Equalizer Adjustment

#### Procedure:

Mode: Playback

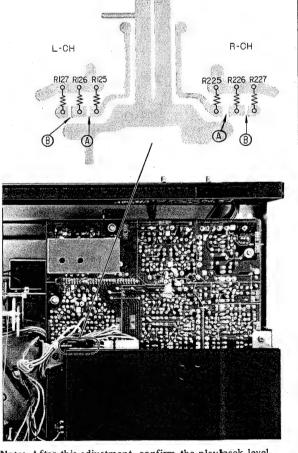


Adjust pattern connections for 0.27-0.37V (-9.5 - -6.5 dB) VTVM reading.

#### Adjustment Location:

- record/playback board -

Pattern connection	VTVM reading
(open)	up
A	
(A) and (B)	down

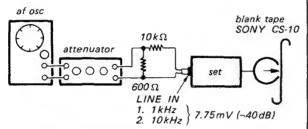


Note: After this adjustment, confirm the playback level.

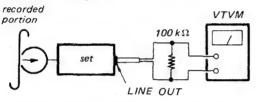
#### Record Bias Adjustment

#### Procedure:

1. Mode: Standard record (See page 18.)



2. Mode: Playback



Adjust C508 (L-CH) and C509 (R-CH) to make 10 kHz and 1 kHz signal output levels equal.

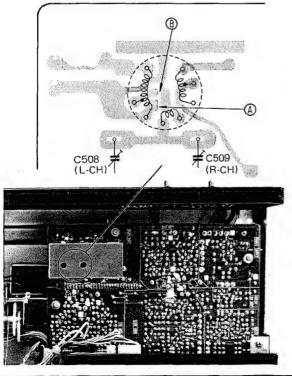
Level difference between the two output levels: within 0.5 dB

#### Adjustment Location:

Note: Normally, patterns at (A) are bridged.

If adjustment is not made with trimmers fully tightened, remove solder bridge at (A) and bridge patterns at (B), and repeat the adjustment.

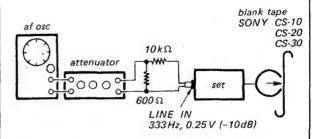
- record/playback board -



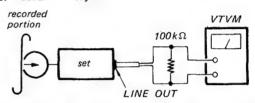
#### Record Level Adjustment

#### Procedure:

1. Mode: Standard record (See page 18.)



2. Mode: Playback



Adjust RV102 (L-CH) and RV202 (R-CH) to obtain 0.775 V (0 dB) VTVM reading.

#### Specification:

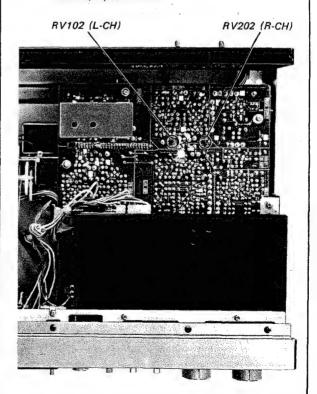
LINE OUT level: 0.

 $0.73 - 0.81 \,\mathrm{V}$ 

(-0.5-+0.5 dB)

#### Adjustment Location:

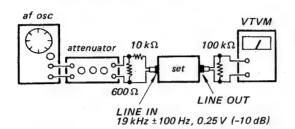
- record/playback board -



#### MPX Filter Adjustment

#### Procedure:

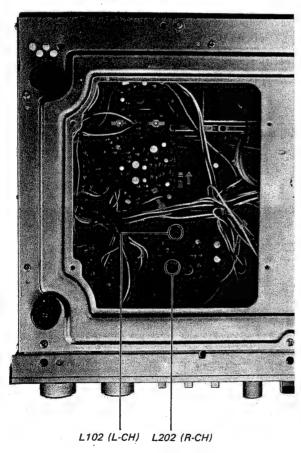
Mode: Standard record (See page 18.)
DOLBY NR switch: ON



Adjust L102 (L-CH) and L202 (R-CH) for 25 mV (-30 dB) or less VTVM reading.

#### Adjustment Location:

- record/playback board -

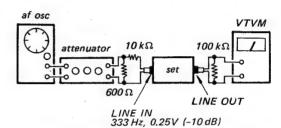


## Liquid Crystal Peak Program Meter Offset/Gain Adjustment

#### Offset Adjustment

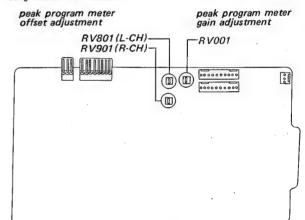
#### Procedure:

Mode: Standard record (See page 18.)



Adjust RV801 (L-CH) and RV901 (R-CH) so that the indication element of the meter places at  $-4 \text{ dB} \pm 1$  element.

#### Adjustment Location:



- A/D converter board -

#### Gain Adjustment

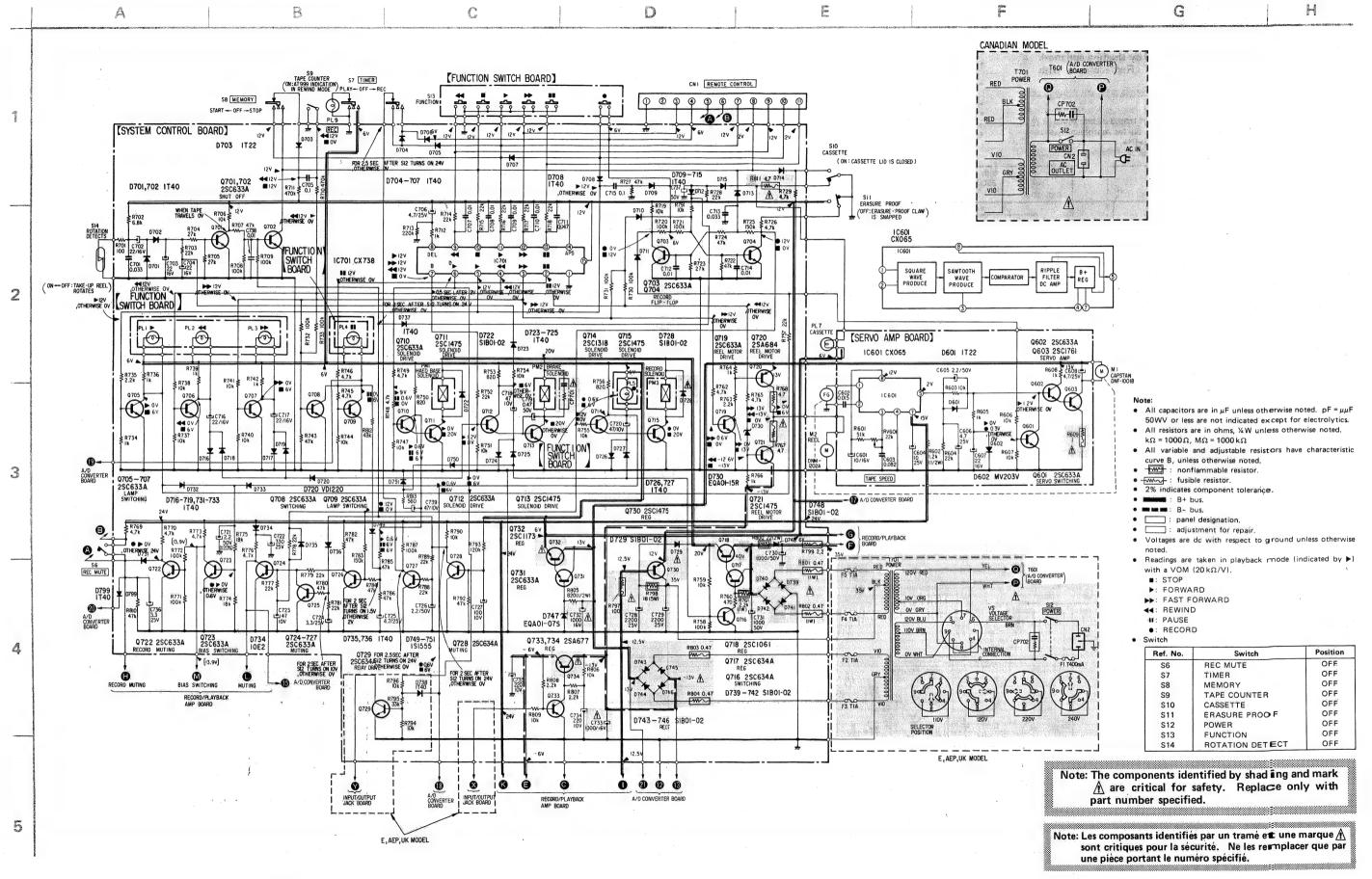
#### Procedure:

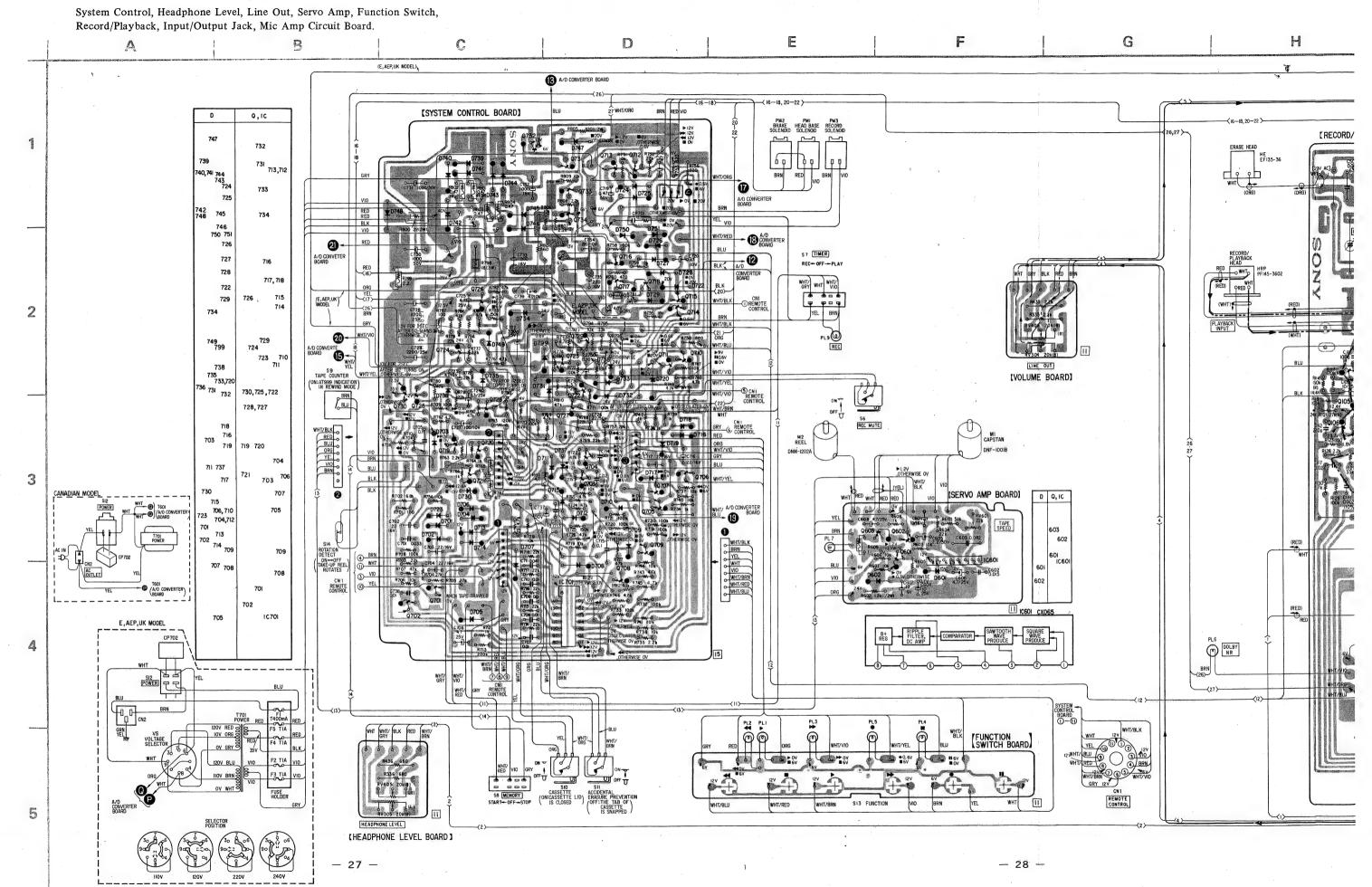
Mode: Standard record (See page 18.)

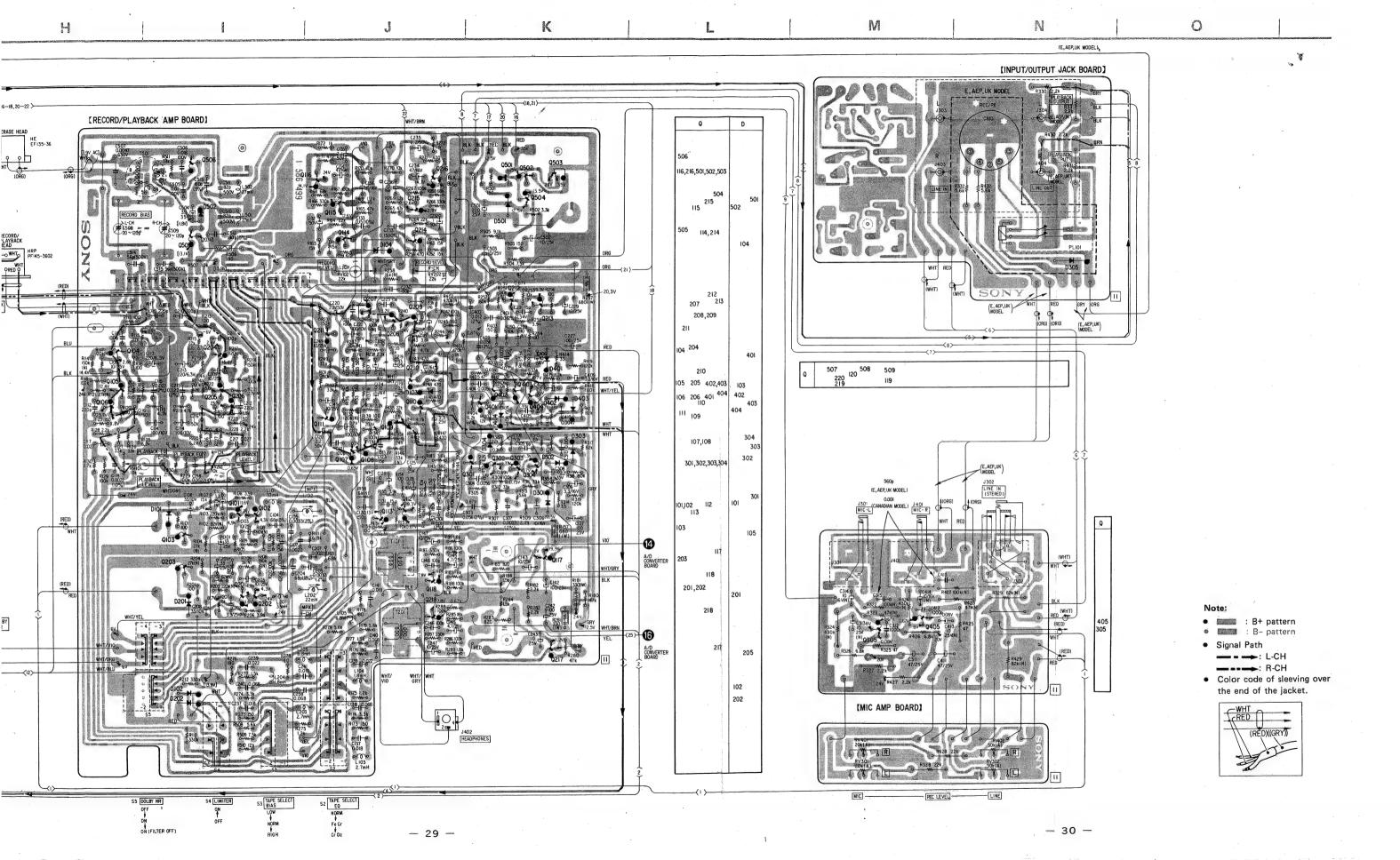
By varying LINE IN level for the specified LINE OUT level, adjust RV001 so that the indication element places at the following position.

LINE OUT	Indication Element Position
8 dB	4 dB ± 1 element
4 dB	0 dB ± 1 element
-6 dB	-10 dB ± 1 element
-26 dB	-30 dB ± 1 element
-41 dB	the leftmost element only

#### 4-2. SCHEMATIC DIAGRAM - System Control Section -







#### • A/D CONVERTER BOARD

#### Replacement Semiconductors

For replacement, use semiconductors except in ( ).

IC1-3, 5: μPC4558C (μPC4558) IC4, 11: μPC1458C (μPC1458)



IC6: TC4024P (TC4024)

IC7-9: CD4069 IC12: TC4081P (TC4081) IC13: TC4068P (TC4068)

1413121110 9 8 1 2 3 4 5 6 7

IC15: μPC78L05



IC16: μΑ79M05



IC801, 802, 901, 902: CX762



Q001-003, 801: 2SC1364 (2SC1363)



D001-004) : 1S1555 D801, 810



#### • RECORD/PLAYBACK AMP BOARD

#### Replacement Semiconductors

For replacement, use semiconductors except in ( ).

Q101, 102, 104-107 Q112, 305, 201, 202 Q204-207, 212, 405 : 2SC1362 (2SC1345) Q108, 109, 208, 209: Q108, 110, 111 Q114–118, 203, 210 Q211, 214–218 : 2SC1364 (2SC1345) : 2SC1364 (2SC633A) Q301-304, 401-404 Q504, 505, 728 2SC1364



Q113, 213: 2SA678 (2SA677)



Q501: 2SK30A



Q503: 2SC1061



Q506: 2SC1475 (2SC1318)



D101, 201: 10E2 (V06C) D102, 202 D502 : 1S1555 (1T40) D301, 302 D401, 402 : 1T22AM D303, 304 D403, 404 : 1S1555



D103, 104 D203, 204 EQB01-11Z (EQA01-11) D501: EQB01-12Z (EQA01-12S) EQB01-12Z (EQA01-12S)



#### • SYSTEM CONTROL BOARD

#### Replacement Semiconductors

For replacement, use semiconductors except in ( ).

Q601, 602, 701-710 Q712, 719, 722-729 : 2SC1364 (2SC633A) D701, 702, 704-707 : 1S1555 (1T40) D731-733, 735-738 D749-751, 799 Q716, 717, 728: 2SC634A D722, 728, 729 10E2 (SIB01-02) D739-746, 748 D734: D601, 703, 708: 1T22AM (1T22)

> D730: EQB01-15 (EQA01-15R) D747: EQB01-07 (EQA01-07S)

> > D602: MV203V





Q718: 2SC1061 Q732: 2SC1173



0711,713-715 0721 730 }: 2SC1475 (2SC1318)



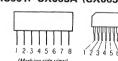
Q603: 2SC1760 (2SC1761)



Q720: 2SA684



#### IC601: CX065A (CX065)



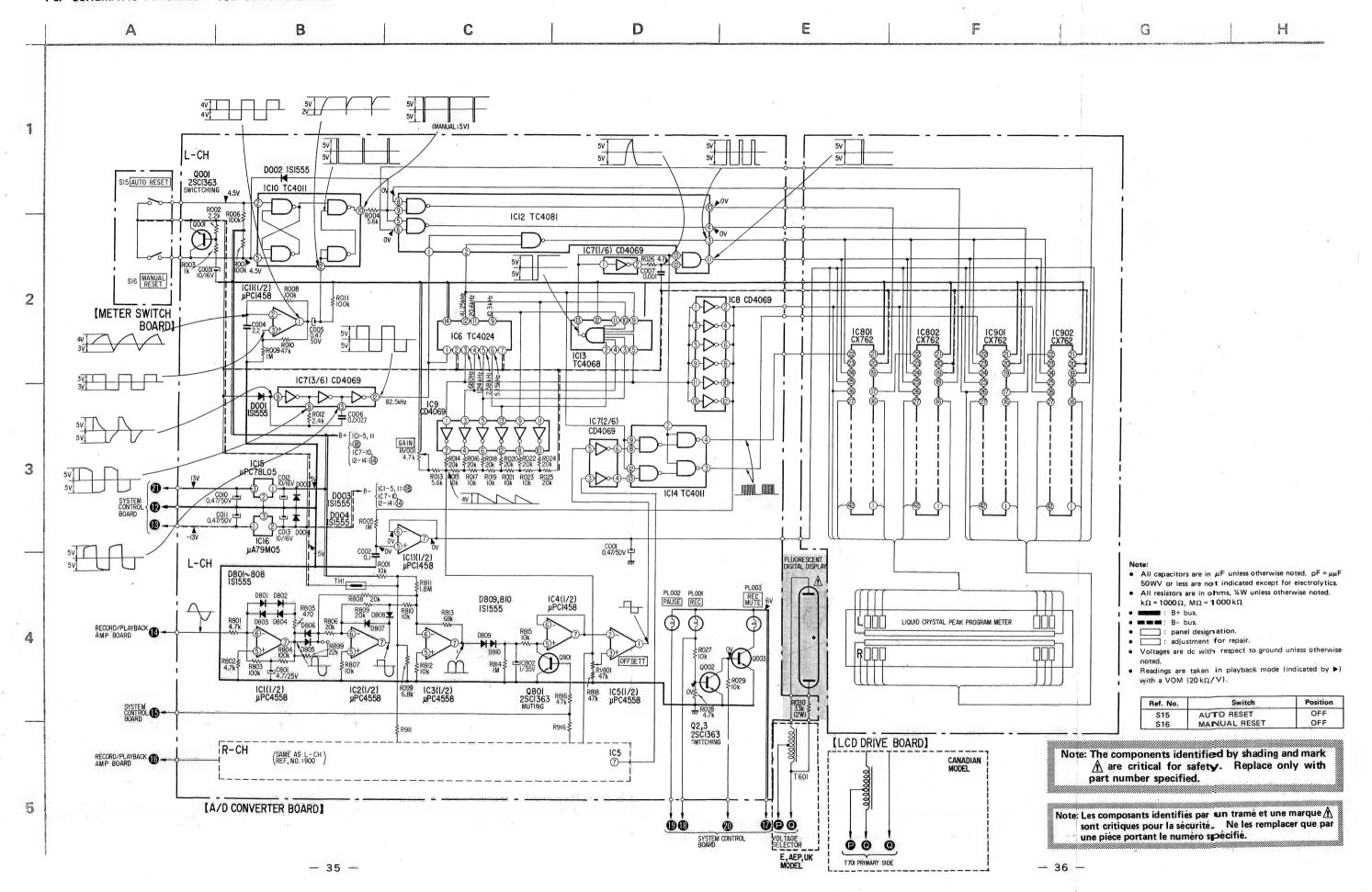
#### IC701: CX738A (CX738)

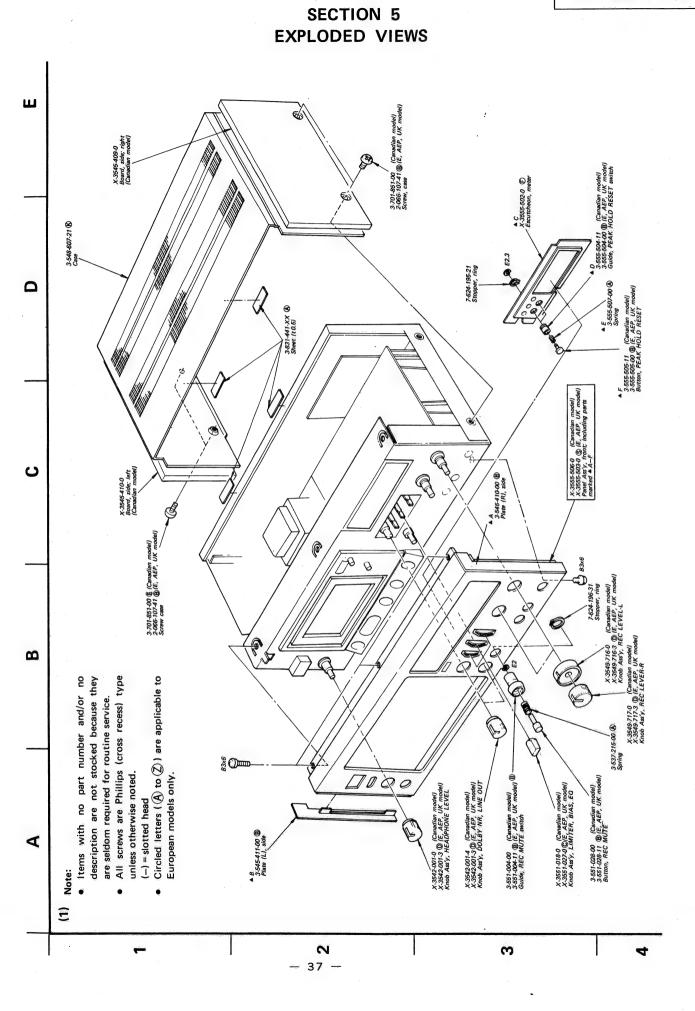


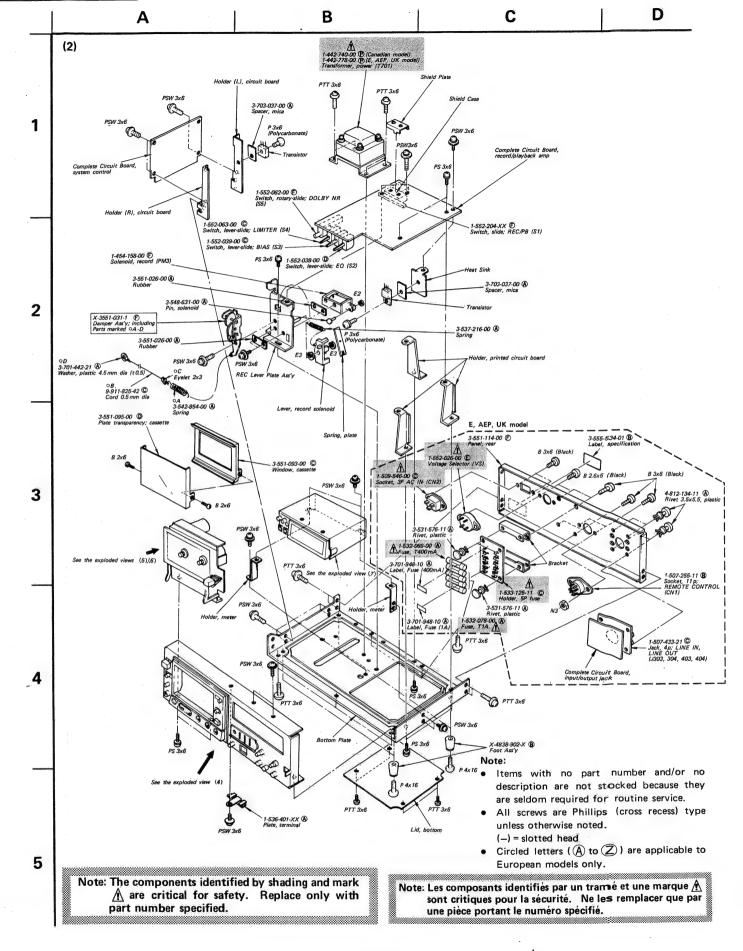
- 33

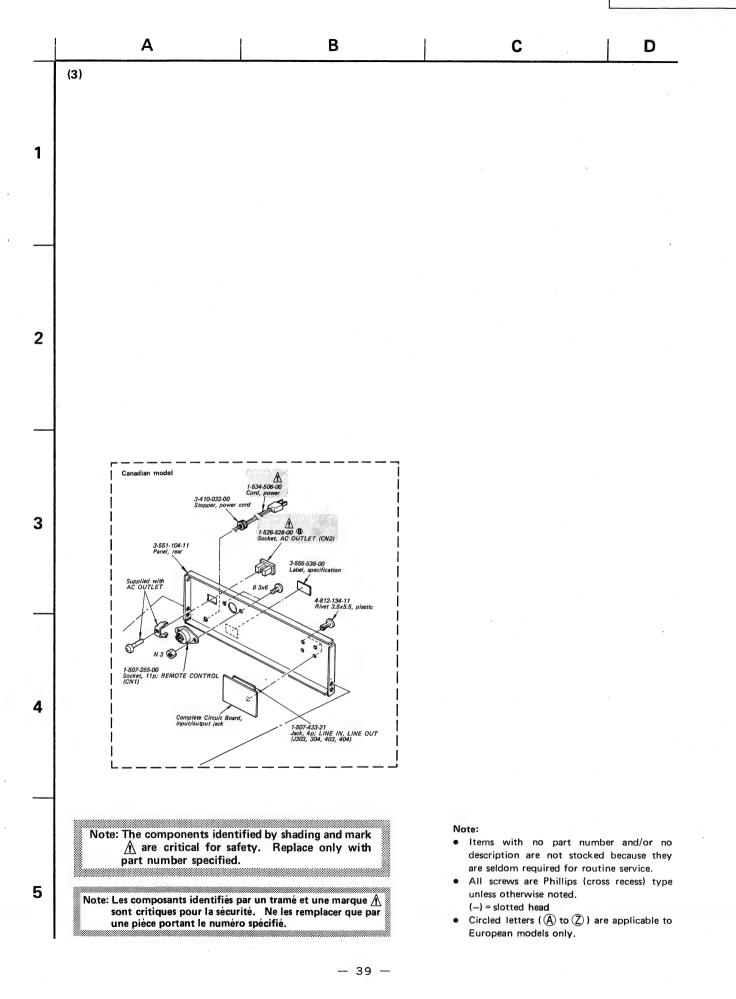
[ LCD DRIVE BOARD ]

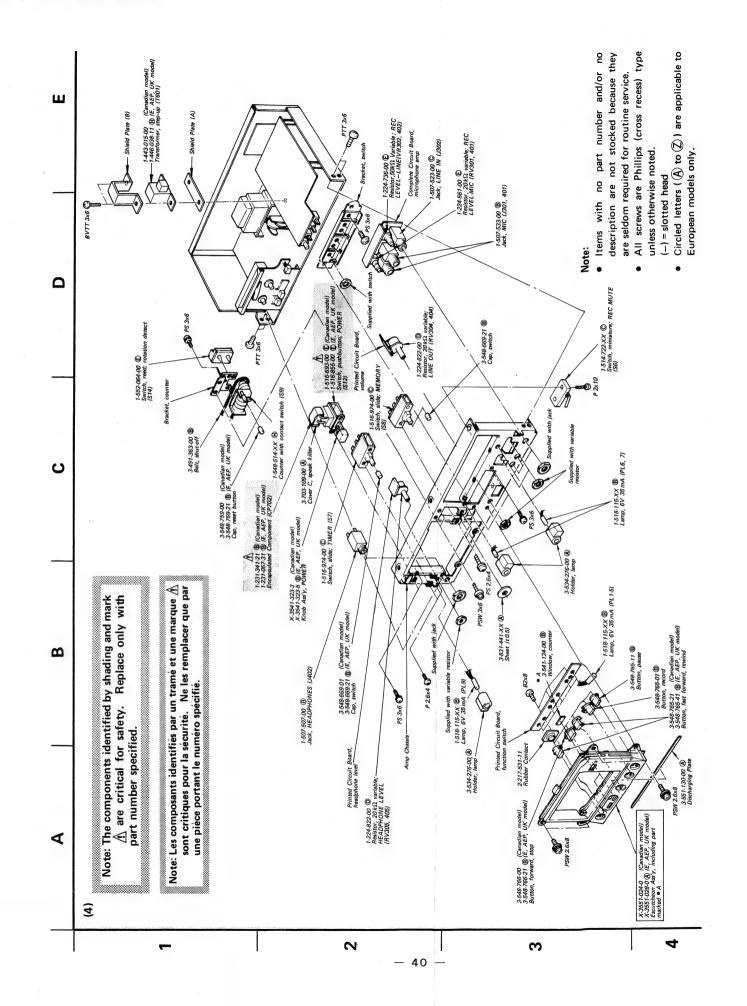
- 34 -

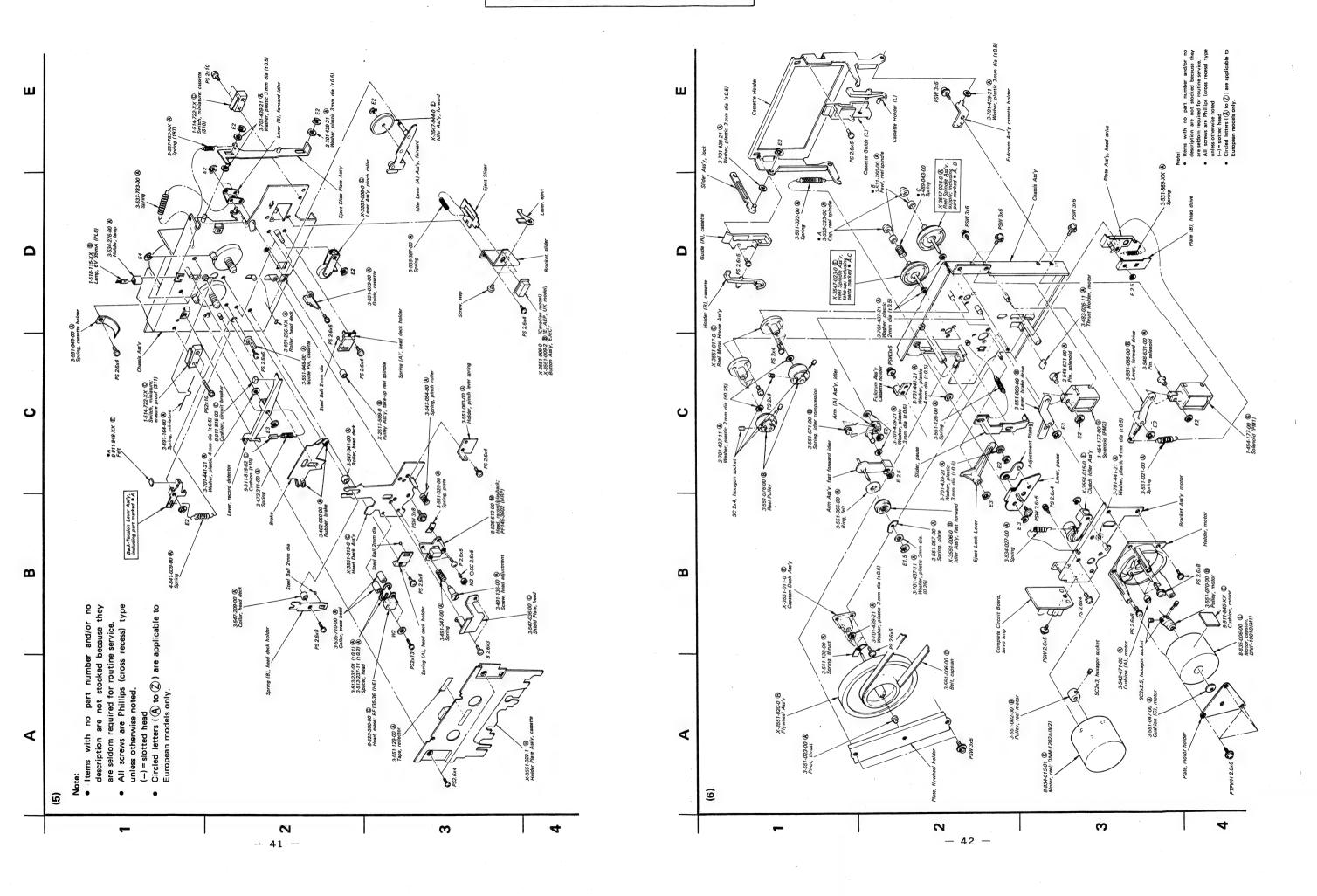


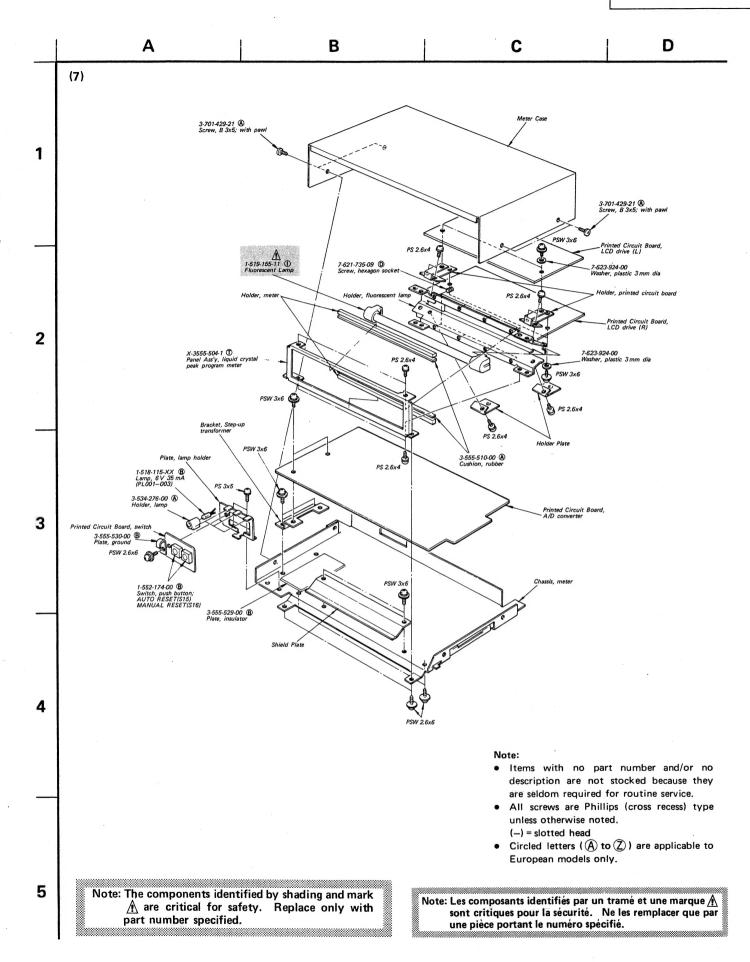












1/4 WATT CARBON RESISTORS (A)

Note: Circled letter (A) is applicable to European model only.

											Lui Opcan in		
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-244-601-11	10	1-244-625-11	100	1-244-649-11	1.0k	1-244-673-11	10 k			1-244-721-11		
1.1	1-244-602-11	11	1-244-626-11	110	1-244-650-11	1.1k	1-244-674-11				1-244-722-11		
1.2	1-244-603-11	12	1-244-627-11	120	1-244-651-11	1.2k	1-244-675-11	12 k	1-244-699-11	120 k	1-244-723-11	1.2M	1-244-747-11
1.3	1-244-604-11	13	1-244-628-11	130	1-244-652-11	1.3k	1-244-676-11				1-244-724-11		
1.5	1-244-605-11	15	1-244-629-11	150	1-244-653-11	1.5k	1-244-677-11	15 k	1-244-701-11	150 k	1-244-725-11	1.5M	1-244-749-11
١			. 044 620 11	160	1 044 654 11	1 61.	1-244-678-11	161.	1-244-702-11	1601	1-244-726-11	1 6M	1-244-750-11
1.6	1-244-606-11	16	1-244-630-11				1-244-679-11						
1.8	1-244-607-11		1-244-631-11										
2.0	1-244-608-11	20	1-244-632-11		1-244-656-11	1					1-244-728-11		
2.2	1-244-609-11	22	1-244-633-11				1-244-681-11				1-244-729-11		
2.4	1-244-610-11	24	1-244-634-11	240	1-244-658-11	2.4k	1-244-682-11	24 k	1-244-706-11	240 K	1-244-730-11	2.4M	1-244-754-11
2.7	1-244-611-11	27	1-244-635-11	270	1-244-659-11	2.7 k	1-244-683-11	27 k	1-244-707-11	270 k	1-244-731-11	2.7M	1-244-755-11
3.0	1-244-612-11	30	1-244-636-11				1-244-684-11	30 k	1-244-708-11	300 k	1-244-732-11	3.0M	1-244-756-11
3.3	1-244-613-11	33	1-244-637-11		1-244-661-11	3.3k	1-244-685-11				1-244-733-11		
3.6	1-244-614-11	36	1-244-638-11		1-244-662-11	3.6k	1-244-686-11	36 k	1-244-710-11	360 k	1-244-734-11	3.6M	1-244-758-11
3.9	1-244-615-11	39	1-244-639-11		1-244-663-11	3.9k	1-244-687-11				1-244-735-11		
1												. 234	1-244-760-11
4.3	1-244-616-11		1-244-640-11				1-244-688-11						
4.7	1-244-617-11	47	1-244-641-11				1-244-689-11				1-244-737-11		
5.1	1-244-618-11	51	1-244-642-11	510			1-244-690-11				1-244-738-11	5.1M	1-244-762-11
5.6	1-244-619-11	56	1-244-643-11	560	1-244-667-11	5.6k	1-244-691-11		1-244-715-11	1			
6.2	1-244-620-11	62	1-244-644 11	620	1-244-668-11	6.2k	1-244-692-11	62 k	1-244-716-11	620 k	1-244-740-11		-
6.8	1-244-621-11	68	1-244-645-11	680	1-244-669-11	6.84	1-244-693-11	68 k	1-244-717-11	680 k	1-244-741-11		
7.5	1-244-622-11		1-244-646-11		1	13	1-244-694-11			1 1			
	1-244-623-11	1	1-244-647-11				1-244-695-11		1-244-719-11				
8.2	1						1-244-696-11		1-244-720-11				
9.1	1-244-624-11	91	1-244-648-11	910	1-244-0/2-11	9.1K	1-244-090-11	31 K	1 244 720-11	310 K	1 244 /44 (1		
L	1	1											

#### HARDWARE NOMENCLATURE

w: P3 x 10
L: Length in mm
D: Diameter in mm
Type of head
Indicated slotted-head only.
Unless otherwise indicated, it means
cross-recessed head (Phillips type).

Reference Designation Shape		Description	Remarks				
		SCREWS					
P	₽	pan-head screw	binding-head (B) screw for replacement				
PWH	€	pan-head screw with washer face	binding-head (B) screw and flat washer for replacement				
PS PSP #3		pan-head screw with spring washer	binding-head (B) screw and spring washer for replace- ment				
PSW PSPW	<del>(%)</del>	pan-head screw with spring and flat washers	binding-head (B) screw and spring and flat washers for replacement				
R	₽	round-head screw	binding-head (B) screw for replacement				
Κ .	Þ	flat-countersunk-head screw					
RK	€	oval-countersunk-head screw					
В	₽	binding-head screw					
T	₽	truss-head screw	binding-head (B) screw for replacement				
F	₽	flat-fillister-head screw					
RF	€⊒•	fillister-head screw					
BV	<del>( </del>  3+	braizer-head screw					

lut, Washer, Retaining ring:

N 3

Diameter of usable screw or shaft

Reference designation

Reference Designation Shape		Description	Remarks					
		SELF-TAPPING SCRE	ws					
TA	(H)	self-tapping screw	ex: TA, P 3 x 10					
PTP		pan-head self-tapping screw	binding-head self- tapping (TA, B) screw for replacement					
PTPWH	<b>\bar{\bar{\bar{\bar{\bar{\bar{\bar{</b>	pan-head self-tapping screw with washer face	binding-head self tapping (TA, B) screw and flat washer for replacement					
PTTWH (		pan-head thread-rolling screw with washer face	binding-head (B) screw and flat washer for replacement					
		SET SCREWS						
sc	-	set screw						
sc	-00	hexagon-socket set screv	ex: SC 2.6 x 4, hexagon socket					
į		NUT						
N	-[]-@-	nut						
		WASHERS						
w	0	flat washer						
sw	<b>-⊚-</b> \$-	spring washer						
LW O		internal-tooth lock washer	ex: LW3, internal					
LW	0	external-tooth lock washer	ex: LW3, external					
		RETAINING RINGS						
E	0	retaining ring						
G 💮		grip-type retaining ring						

Circled letters (A) to D) are applicable to European models only.

## SECTION 6 **ELECTRICAL PARTS LIST**

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
	CEMIA.	CONDUCTORS	⇒ Q731	8-729-663-47	B 2SC1364
	SEIVIT	CONDUCTORS	2010 Land TACTO NUMBER 40 44 45 TATO NA	8-729-217-33	© 2SC1173
	-	Turnsistana	⇒ Q733	8-727-788-00	B 2SA678
		Transistors	The state of the state of the state of	\ 8-727-788-00	B 2SA678
0004 000	0.730.663.47	(R) 25C1264	⇒ Q/34 <u>/I</u>	<u> </u>	2040,0
⇒ Q001-003	8-729-663-47	<b>B</b> 2SC1364	⇒ Q801	8-729-663-47	B 2SC1364
⇒ Q101,201					
$\Rightarrow Q102,202$	8-729-665-47	(B) 2SC1362			ICs
⇒ Q103,203	8-729-663-47	<b>B</b> 2SC1364			
$\Rightarrow$ Q104-107,		@ agg10.60	⇒ IC1-3	8-759-145-58	μPC4558C
$\Rightarrow$ Q204-207	8-729-665-47	<b>B</b> 2SC1362	⇒ IC4	8-759-114-58	μPC1458C
			⇒ IC5	8-759-145-58	μPC4558C
⇒ Q108-111			⇒ IC6	8-759-240-24	TC4024P
$\Rightarrow Q208-211$	8-729-663-47	B 2SC1364	IC7-9	8-759-940-69	CD4069
⇒ Q112,212	8-729-665-47	<b>B</b> 2SC1362			
⇒ Q113,213	8-727-788-00	B 2SA678	⇒ IC10	8-759-240-11	TC4011P
$\Rightarrow$ Q114-120		-	⇒ IC11	8-759-114-58	μPC1458C
$\Rightarrow$ Q214-220	8-729-663-47	B 2SC1364	⇒ IC12	8-759-240-81	TC4081P
			⇒ IC13	8-759-240-68	TC4068P
⇒ Q301-304		<b>8</b>	⇒ IC14	8-759-240-11	TC4011P
$\Rightarrow$ Q401-404)	8-729-663-47	B 2SC1364			
⇒ Q305,405	8-729-665-47	<b>B</b> 2SC1362	IC15	8-759-178-05	μPC78L05
, 2000, 100			IC16	8-759-979-05	μΑ79Μ05
⇒ Q501	8-729-203-04	B 2SK30A			
⇒ Q502	8-729-663-47	<b>B</b> 2SC1364	⇒ IC601	8-759-600-65	© CX065A
	8-729-316-12	D 2SC1061			
⇒ Q504,505	8-729-663-47	B 2SC1364	⇒ IC701	8-759-107-38	① CX738A
⇒ Q506	8-760-413-10	B 2SC1475			
⇒ Q507-509	8-729-663-47	B 2SC1364	IC801,802	8-759-907-62	CX762
			IC901,902	8-139-901-02	CA702
⇒ Q601,602	8-729-663-47	<b>B</b> 2SC1364			
⇒ Q603	8-763-314-00	© 2SC1760			Diodes
					_
$\Rightarrow$ Q701-710	8-729-663-47	<b>B</b> 2SC1364	D001-004	8-719-815-55	<b>B</b> 1S1555
Q711	8-760-413-10	B 2SC1475			
⇒ Q712	8-729-663-47	<b>B</b> 2SC1364	⇒ D101,201	8-719-200-02	<b>B</b> 10E2
Q713-715	8-760-413-10	© 2SC1475	⇒ D102,202	8-719-815-55	<b>B</b> 1S1555
$\Rightarrow$ Q716,717	8-729-663-47	B 2SC1364	⇒ D103,104	8-719-930-11	<b>B</b> EQB01-11Z
	rapio for control of the control of	er have enemana ann de tra Matehoenin vann en an Natheri	⇒ D203,204′	0-715-550-11	
Q718 /	<u>↑</u> 8-729-316-12	D 2SC1061	⇒ D105,205	8-719-422-21	<b>(A)</b> 1T22AM
⇒ Q719	8-729-663-47	B 2SC1364			
Q720	8-729-468-43	© 2SA684	⇒ D301,401	8-719-422-21	(A) 1T22AM
Q721	8-760-413-10	<b>B</b> 2SC1475	$\Rightarrow$ D302,402	5 , 15 Tab b1	·
⇒ Q722-728	8-729-663-47	<b>B</b> 2SC1364	D303,403	8-719-815-55	<b>B</b> 1S1555
⇒ Q729	8-729-663-47	B 2SC1364 (E, AEP, UK model)	D304,404		
Q730	<u> </u>	© 2SC1475	⇒ D305	8-719-815-55	<b>B</b> 1S1555 (E, AEP, UK model)

<sup>⇒:</sup> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque 🛕 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Ref. No.
⇒ D501	8-719-930-12	® EQB01-12Z	T501
⇒ D502	8-719-815-55	(B) 1S1555	
⇒ D302	0-719-013-33	<b>(</b> ) 151353	TC01
⇒ D601	8-719-422-21	(A) 1T22AM	T601
⇒ D602	8-719-920-30	<b>B</b> MV203V	9 10 10
			T701 {
$\Rightarrow$ D701,702	8-719-815-55	B 1S1555	
⇒D703	8-719-422-21	(A) 1T22AM	
$\Rightarrow$ D704-707	8-719-815-55	B 1S1555	
⇒ D708	8-719-422-21	(A) 1T22AM	
$\Rightarrow$ D709-721	8-719-815-55	<b>B</b> 1S1555	
⇒ D722	8-719-200-02	<b>B</b> 10E2	
$\Rightarrow$ D723-727	8-719-815-55	<b>B</b> 1S1555	
⇒ D728 <u></u>	8-719-200-02	B 10E2	
⇒ D729 <u>∧</u>	8-719-200-02	<b>B</b> 10E2	
⇒ D730	8-719-931-15	<b>B</b> EQB01-15	C001
			C002
⇒D731-733	8-719-815-55	B 1S1555	C003
D734	8-719-200-02	<b>B</b> 10E2	C004
⇒ D735-737	8-719-815-55	B 181555	C005
⇒ D738	8-719-815-55	B 1S1555 (E, AEP, UK model)	
⇒ D739-746 <b></b>	8-719-200-02	<b>B</b> 10E2	C006
			C007
⇒ D747	8-719-931-07	<b>B</b> EQB01-07	C010,011
⇒ D748 <u></u>	8-719-200-02	B 10E2	C012,013
⇒ D749-751	8-719-815-55	B 1S1555	
			C101,201
D801-810	8-719-815-55	<b>B</b> 1S1555	C102,202
			C103,203
Th1	1-800-202-XX	Thermistor, S-10K	C104,204
			C105,205
			C10C 20C
		COILS	C106,206
			C107,207
L101,201	1-407-879-00	B 33 mH, microinductor	C108,208
L102,202	1-407-240-00	B 22 mH, variable inductor	C109,209
L103,203		B 2.7 mH, microinductor	C110,210
L104,204		B 1.8 mH, microinductor	
L105,205	1-407-204-XX	B 6.8 mH, microinductor	C111,211
			C112,212
L501,502	1-407-211-XX	A 27 mH, microinductor	C113,213
			C114,214
			C115,215
	TRA	ANSFORMERS	
			C116,216
T101,201	1-427-284-00	© Output	C117,21

<sup>⇒:</sup> Due to standardization, interchangeable replacements may be substituted for parts specified in the diagrams.

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. Note: Circled letters ( A to 2 ) are applicable to European models only.

Ref. No.	Part No.	Des	scription	ription		
T501	1-433-132-11	© Osc				
T601	(1-446-038-00 1-443-015-00	Step-up (I	E, AEP, Canadia	UK model) n model)		
T701 { \( \frac{\lambda}{\lambda} \)	\ 1-442-778-00 \ 1-442-740-00	Power (E,	AEP, U	JK model) model)		
	CA	PACITORS				
A1	capacitors are in	n μF and cera	mic un	ess		
otl	nerwise noted.					
50 ele	WV or less are nectrolytics. pF: µ	ot indicated ε μμF, elect=el	except 1 ectroly1	ic		
	emery eres. Fr. 1					
C001	1-121-726-11	® 0.47	50 V	elect		
C002	1-108-603-12	B 0.1	1637	mylar		
C003	1-121-968-11	B 10	16 V	elect		
C004	1-123-230-11	B 2.2	50V	elect elect		
C005	1-121-726-11	<b>B</b> 0.47	50V	elect		
C006	1-102-122-11	A 0.0027				
C007	1-102-074-11	A 0.001				
C010,011	1-121-726-11	® 0.47	50V	elect		
C012,013	1-121-968-11	<b>B</b> 10	16 V	elect		
C101,201	1-121-404-11	B 33	25 V	elect		
C102,202	1-121-913-11	B 3.3	25 V	elect		
C103,203	1-121-398-11	<b>B</b> 10	25 V	elect		
C104,204	1-107-081-11	B 68p		silvered mica		
C105,205	1-129-794-11	<b>B</b> 0.0033		polyethylene		
C106,206	1-108-569-12	® 0.0039		mylar		
C107,207	1-108-563-12	® 0.0022		mylar		
C108,208	1-121-402-11	B 33	10V	elect		
C109,209	1-121-398-11	B 10	25 V	elect		
C110,210	1-102-110-11	(A) 220p				
,						
C111,211	1-102-106-11	A 100p				
C112,212	1-102-110-11	<u>A</u> 220 p				
C113,213	1-121-419-11	<b>B</b> 220	6.3 V	elect		
C114,214	1-121-414-11	<b>B</b> 100	10V	elect		
C115,215	1-130-072-11	<b>B</b> 0.022	100V	polystyrol		
	1 101 001 11	<b>⋒</b> 1	50V	elect		
C116,216	1-121-391-11	<b>B</b> 1	30 V	mylar		
C117,217	1-108-589-12	<b>B</b> 0.027		iiiy iai		

Note: Les composants identifiés par un tramé et une marque 🕂 sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Circled letters ( A to 2 ) are applicable to European models only.

Ref. No.	Part No.	Descripti	ion	Ref. No.	Part No.	$\underline{D}$	escriptio	on_	Ref. No.	Part No.	<u> </u>	Descript	ion	Ref. No.	Part No.	Description	
C118,218	1-108-230-12 🛕 0.00	22	mylar	C311,411	1-121-410-11	<b>B</b> 47	25 V	elect	C714	1-161-013-11	<b>(A)</b> 0.01		ceramic	R761 ∕∕	1-213-147-11	(A) 2.2 k 1W 5% metal ox	ide '
C119,219	1-121-404-11 B 33		elect	C312,412	1-102-074-11						•		(boundary layer)	R767.768	1-217-383-11	B 4.7 %W 5% fusible	
C120,220	1-121-450-11 B 2.2		elect	C313,413	1-121-748-11		25 V	elect	C715	1-161-025-11	(B) 0.1		ceramic	R797 /	1-217-399-11	B 100 ¼W fusible	
C121,221	1-102-106-11 A 100p			C314,414	1-121-916-11		16 V						(boundary layer)		1-217-301-11	18 5W wirewour	ıd
C122,222	1-121-414-11 B 100		elect		1-102-115-11				C716,717	1-121-479-11	® 22	16 V	elect			B 2.2 4W 5% fusible	
0122,222				C315,415	1-102-074-11				C718	1-121-352-11	_		elect	<u> </u>			
C123,223	1-102-956-11 <b>(A)</b> 15 p								C719	1-121-726-11	_		elect	R800 /	1-206-471-11	B 22 2W metal ox	ide
C124,224	1-121-651-11 <b>B</b> 10		elect	C501	1-121-422-11	<b>B</b> 220	25 V	elect								B 0.37 1W fusible	
C125,225	1-121-398-11 B 10		elect	C502,503	1-121-398-11	_	25 V	elect	C720	1-121-352-11	(B) 47	10V	elect			B 0.47 ¼W fusible	
C126,226	1-121-392-11 B 3.3		elect	C504	1-131-218-11	-	35 V	elect	C721	1-121-986-11			elect	R805		A 820 ½W carbon	P620429-34-14-2
C127,227	1-121-416-11 <b>B</b> 100		elect	C505	1-108-377-12	_	100V	mylar	C722	1-121-654-11	_		elect	AND REPORT OF THE PROPERTY OF	Supplemental Companies (September 2015) The Companies (Septemb	B 4.7 ½W fusible	
,				C506	1-108-380-12	_	100V	mylar	C723	1-121-975-11			elect	-	-	The state of the s	- SECONOMINA
C128,228	1-121-651-11 B 10	16 V	elect						C724	1-121-392-11			elect	RV001	1-224-251-XX	© 4.7 k, adjustable	
C129,229	1-121-398-11 B 10		elect	C507	1-129-710-11	® 0.0047	630V	polyethylene									
C130,230	1-102-108-11 A 150g			C508,509	1-141-010-XX	-		trimmer	C725	1-121-395-11	(B) 4.7	25 V	elect	RV101,201	1-224-645-XX	B 10 k, adjustable	
C131,231	1-102-956-11 <b>(A)</b> 15p			C510,511	1-107-037-11	-		silvered mica	C726	1-121-986-11	_	50 V	elect			B 22 k, adjustable	
C132,232	1-121-391-11 <b>B</b> 1		elect	C512,513	1-107-137-11	_		silvered mica	C727	1-121-976-11	_	10V	elect				
0102,202				C514,515	1-107-165-11	_		silvered mica	and the second s	1-123-067-11		25 V	elect	RV301,401	1-224-561-00	© 20 k, variable; REC LEVE	L MIC
C133,233	1-108-252-12 B 0.15		mylar			• .				1-123-061-11			elect			© 50 k/50 k, variable; REC I	
C134,234	1-121-409-11 B 47		elect	C601	1-121-651-11	(B) 10	16 V	elect		<u>.                                    </u>	Ŭ					LINE	
C135,235	1-121-450-11 B 2.2		elect	C602	1-108-583-12	_		mylar	C732,733	1-121-944-11	(E) 1000	16 V	elect	RV304,404		20 k/20 k, variable; LINE	OUT
C136,236	1-121-651-11 B 10		elect	C603	1-130-134-11	_	100V	polyethylene	C734,735	1-121-420-11	\$200 p. 15 to 100 July 1980, 100 3600 1		elect	RV305,405)	1-224-822-00	(D) HEADPHONE LEVEL	
C137,237	1-108-585-12 B 0.01		mylar	C604	1-121-398-11	_	25 V		C736	1-121-392-11	_		elect				
0137,237		_		C605	1-121-986-11	_	50V		C737	1-121-391-11	-	50 V	elect	RV601	1-224-491-00	B 22 k, adjustable	
C138,238	1-108-599-12 B 0.06	8	mylar			<u> </u>			C738	1-161-013-11			ceramic				
C139,239	1-108-587-12 B 0.02		mylar	C606	1-121-395-11	(B) 4.7	25 V	elect			J		(boundary layer)	RV801,901	1-224-252-XX	© 47 k, adjustable	
C140,240	1-108-599-12 B 0.06		mylar	C607	1-121-990-11	_	16 V	elect	C739	1-121-352-11	(B) 47	10 V	elect				
C141,241	1-108-585-12 B 0.01		mylar	C608	1-121-395-11	_	25 V	elect									
C142,242	1-121-416-11 B 100		elect			0			C801,901	1-121-395-11	<b>(A)</b> 4.7	25 V	elect		s	WITCHES	
				. C701	1-161-019-11	(A) 0.033		ceramic	C802,902	1-131-215-11		35 V	tantalum	i			
C143,243	1-121-398-11 B 10	25 V	elect					(boundary layer)						S1	1-552-204-00	F Slide, REC/PB	
C145,245	1-121-395-11 B 4.7		elect	C702	1-131-201-11	<b>B</b> 22	16 V	tantalum						S2	1-552-038-00	D Lever-slide, EQ	
C146,246	1-102-106-11 (A) 100p	p		C703	1-121-990-11	<b>B</b> 22	16 V	elect			RESISTORS			S3	1-552-039-00	C Lever-slide, BIAS	
C147,247	1-121-398-11 B 10		elect	C704	1-121-479-11	<b>B</b> 22	16 V	elect		,	nesis i Ons			S4	1-552-063-00	© Lever-slide, LIMITER	
C149,249	1-121-398-11 B 10	25 V	elect	C705	1-161-025-11	B 0.1		ceramic	<b>A</b>	ll resistors are in	ohme Com	mon 1/1	Wearhon	S5	1-552-062-00	F Rotary-slide, DOLBY NR	
								(boundary layer)		sistors are omitt		111011 74	w carbon				
C301,401	1-129-701-11 B 0.01	100V	polyethylene							efer to the list o		r their p	part	S6	1-514-722-XX	© Miniature, REC MUTE	
C302,402	1-129-896-11 B 0.01	2 100V	polyethylene	C706	1-121-395-11	<b>A</b> 4.7	25 V	elect		mbers.		•		S7		© Slide, TIMER	
C303,403	1-129-899-11 B 0.05	6 100V	polyethylene	C707-710	1-161-013-11	<b>B</b> 0.01		ceramic	R030	1-206-700-11	B 33 k	2W	metal oxide	S8	1-516-974-00	© Slide, MEMORY	
C304,404	1-108-573-12 B 0.00	56	mylar					(boundary layer)		<del></del>				S10	1-514-722-XX	© Miniature, cassette	
C305,405	1-102-943-11 (A) 6p			C711	1-161-021-11	A 0.047		ceramic	R157,257	1-213-141-11	(A) 680	1 W	metal oxide	S11	1-514-722-XX	© Miniature, erasure proof	
	<u> </u>							(boundary layer)		1-213-137-11			metal oxide			and the second s	
C306,406	1-121-651-11 <b>B</b> 10	16 V	elect	C712	1-161-013-11	0.01		ceramic	•					( A	1-516-855-00	© Push button, POWER	
C307,407	1-129-794-11 🔞 0.00	33 100V	polyethylene					(boundary layer)	R506	<u>↑</u> 1-217-402-11	B 180 3	4W	fusible	S12 }	Let the East of the State of th	(E, AEP, UK model)	
C308,408	1-131-217-11 <b>B</b> 2.2		tantalum	C713	1-161-019-11	(A) 0.033		ceramic							1-516-693-00	© Push button, POWER	
C309,409	1-131-197-11 <b>B</b> 3.3	16 V	tantalum					(boundary layer)	R602	1-244-875-11	A 1.2 k 3	2W	carbon		16.5	(Can adian model)	
C310,410	1-108-571-12 B 0.00	)47	mylar						R609	1-217-375-11	<b>B</b> 1 3	4W	fusible	S14	1-552-064-00	€ Reed, rotation detect	
				1										l			

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque <u>∧</u> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spé⊂ifié.

#### Note: Circled letters ( A to Z ) are applicable to European models only.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description				
S15 S16	1-552-174-00 1-552-174-00 1-507-533-00	B Pushbutton, AUTO RESET B Pushbutton, MANUAL RESET  JACKS B MIC	RL101 VS	1-515-294-00  1-552-026-00  1-519-155-1  1-533-125-1	(E) Voltage Selector (E, AEP, UK model)  (I) Fluorescent Lamp (D) Holder, 5p fuse (E, AEP, UK model)				
J302 J303,403 J304,404) J402	1-507-523-00 1-507-433-21 1-507-507-00	© LINE IN © 4p, LINE IN, LINE OUT © HEADPHONES			X B Plate, terminal X H Counter with Contact Switch (S9) 0 D Cord, power (Canadian model)				
		FUSES		ACCESSORIES	& PACKING MATERIALS				
<b>F1</b>	<u>^</u> 1-532-066-00	B Fuse, T400 mA (E, AEP, UK model)	Part No.		Description				
F2-5	<u>^</u> 1-532-078-00	B Fuse, 1A (E, AEP, UK model)	X-3549-74 X-3701-10	_	shion Ass'y o Ass'y, head cleaning				
	MISC	CELLANEOUS	1-534-049- 1-534-487-	2002/00/2016 12:00 (0.00)	rd, connection; RK-74 rd, power (E, AEP, UK model)				
CP701 {	1-507-255-00 ▲ 1-509-546-00	B Encapsulated Component (E, AEP, UK model)  D Encapsulated Component	3-429-126- 3-541-250- 3-548-780- 3-548-781- 3-548-788- 3-548-789- 3-555-533- 3-570-392- 3-770-392- 4-837-003	00 (A) Sti 00 (B) Cu 00 (C) Cu	g, plastic; set (Canadian model) cker, loading shion (E, AEP, UK model) shion, lower; front (E, AEP, UK model) shion, lower; rear (E, AEP, UK model) shion, lower; front (Canadian model) shion, lower; rear (Canadian model) shion (Canadian model) rton (E, AEP, UK model) rton (Canadian model) unual, instruction (Canadian model) unual, instruction (E, AEP, UK model) g, plastic; set (E, AEP, UK model)				
M1 M2 PL1-9 PM1,2 PM3	8-835-006-00 8-834-015-01 1-518-115-XX 1-454-177-00 1-454-158-00	Motor, capstan; DNF-1001B  Motor, reel; DNM-1202A  B Lamp, 6V 35 mA G Solenoid F Solenoid							

Note: The components identified by shading and mark A are critical for safety. Replace only with part number specified. Note: Les composants identifiés par un tramé et une marque <u>A</u> sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

#### MODEL IDENTIFICATION

- Specification Label -

TC-K8 Canadian model

# SONY<sub>®</sub>

TAPECORDER TC-K8 AC 120V 60Hz 32W NO. MADE IN JAPAN

TC-K8B E, AEP, UK model

# SONY®

TAPECORDER TC-K8B 110 120 220 240V ~ 50/60Hz 35 W

NO.

MADE IN JAPAN

**Sony Corporation** 

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78F06100-1 Printed in Japan